

U.S. ARMY - TARDEC

Dual-Use Technology Transfer



NAC Overview

CRADA Program Info



May 2004

Tank Automotive Research, Development & Engineering Center (TARDEC)

- Under the Research, Development & Engineering (RDE) Command
- Located in Warren, MI
- Co-located with TACOM
- Research, Development, Engineering, Operations & National Automotive Center

Research, Development & Engineering (RDE) Command

NAC Mission

- Identify dual needs of the Department of Defense and the automotive industry.
- Accelerate the exchange and implementation of automotive technologies by fostering relationships and forming cost-shared partnerships.
- Vision is to become the recognized leader in automotive technology for tomorrow's defense.

NAC Business Model

Dual Needs Focus



Research, Development & Engineering (RDE) Command

TARDEC Facilities & Technical Opportunities

TARDEC Facilities

- Fabrication Facility
- Electrical Lab
- Propulsion Lab
- Robotic Engineering Lab
- Air Flow Test Facility
- Vetronics Lab
- IR Imaging Lab
- Fuels & Lubes Lab
- Motion Base Simulator
- Software engineering
- High Performance Computing
- Advanced Collaborative Environment

Technical Opportunities

- Fuel Efficiency
- Vehicle Modernization
- Vehicle Driver and Crew Safety
- Maintenance and Logistics
- Innovative Manufacturing
- Simulation & Virtual Reality

Research, Development & Engineering (RDE) Command

US Army - TARDEC
***Technology
Partnerships***

Cooperative
Research and
Development
Agreements
(CRADA)

Small
Business
Innovation
Research
(SBIR)

Cooperative Research And Development Agreement (CRADA)



Sharing Resources in a Joint Effort for a Dual-Use Objective

Research, Development & Engineering (RDE) Command

CRADA - Overview

Cooperative Research And Development

Agreements

- Are established between Government Laboratories and commercial, academic, government or association partners;
- Facilitate technology transfer between the parties for mutual benefit;
- Help to improve U.S. competitiveness;
- Allow partner to contribute resources such as personnel, services, property and funding to the effort. Government can contribute all the above, except funding.

Research, Development & Engineering (RDE) Command

CRADA - Features & Benefits

- **Quick** - Typically established within 60 days of initiation.
 - **Flexible** - Leveraging of resources including funding, facilities, equipment, and knowledge. Each party pays for their own tasks under a very flexible Statement of Work.
 - **Mutually Beneficial** - Encourage and facilitate cooperative R&D, with industry interests as the focus and technology transfer as the goal. Partner has the first option to exclusively license technology which the Army invents under the CRADA.
- Research, Development & Engineering (RDE) Command

CRADA - Features & Benefits

- **Safe** - Proprietary information is protected at all times. All intellectual property developed under the CRADA belongs to the inventing party.
- **Simple** - Conditions and basic rights of each party are set forth in clear and simple language. There are no matching funds mandated under a CRADA.

CRADA - Current Agreements

- **Akzo Nobel**
- Alion Science & Technology
- **Alberici Constructors**
- **Altair Engineering**
- American Government Marketing
- American Trucking Assoc.
- **Automation Alley**
- BLV Motorsports
- Columbia University
- Core Technologies
- Dana Corp.
- Deere & Company
- **Delphi**
- **Detroit Public Schools**
- **Detroit Science Center**
- **EDS Unigraphics**
- **General Dynamics Land Systems**
- **Holographic Imaging**
- Ibis Tek
- International Truck
- **Intrepid World Communications**
- Klune Industries
- **Macomb County (MI)**
- MSC.Software
- National Biodiesel Board
- **Oakland County (MI)**
- **Onodi Tool & Engineering**
- Permo-Drive
- Precision Combustion
- PREDICT
- **RaeBeck Automotive**
- Saab Barracuda LLC
- Smiths Aerospace
- TeraBurst Networks
- United Defense
- U.S. FIRST
- Water Visions International
- **Wayne County (MI)**
- **Wayne State University**
- **William Beaumont Hospital**

Research, Development & Engineering (RDE) Command

CRADA - Master Agreements

- **Automation Alley**
- **Dana Corporation**
- **Delphi**
- **Ford**
- **General Motors Corp.**
- **United Defense**
- **Wayne State University**

Research, Development & Engineering (RDE) Command

CRADA - Web Sites



www.tacom.army.mil/tardec/nac/collaboration/home.htm

erc.tacom.army.mil/start/engstart/sibrcrada.ppt

US Army
Technology Partnerships

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U.S. Army - Tank-Automotive and Armaments Command

Research, Development & Engineering (RDE) Command

Working With The NAC

- The primary mission of the **National Automotive Center (NAC)** is to serve as a catalyst linking industry, academia and government in the development and exchange of automotive technologies that will benefit all sectors.

For more information on CRADA's,
please contact:

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Center**

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Research, Development & Engineering (RDE) Command